CONTENTS OF VOLUME III.

NUMBER I.

THE BASIC MASSIVE ROCKS OF THE LAKE SUPERIOR REGION. IV. W. S. Bayley - - - - - - - - - - - - - - - 1

A PETROGRAPHICAL SKETCH OF ÆGINA AND METHANA. Part II. Henry S. Washington - - - - - - - - - - - - - - 21

LAKE BASINS CREATED BY WIND EROSION. G. K. Gilbert - - - - 47

ON CLINTON CONGLOMERATES AND WAVE MARKS IN OHIO AND KENTUCKY. Aug. F. Foerste - - - - - - - - - - - - - 50

GLACIAL STUDIES IN GREENLAND. III. T. C. Chamberlin - - - - 61

STUDIES FOR STUDENTS: Agencies which Transport Materials on the Earth's Surface. Rollin D. Salisbury - - - - - - - - - - 70

EDITORIALS - - - - - - - - - - - - - - - - 98

PUBLICATIONS: Geology of the Coastal Plain of Alabama, by E. A. Smith, State Geologist (review by Rollin D. Salisbury), 101; Dr. K. v. Chrustchoff, Ueber Holokrystalline Makrovariolitische Gesteine (review by E. B. Mathews), 108; On Banded Structure of some Tertiary Gabbros in the Isle of Skye, by Sir Archibald Geikie and J. J. H. Teall (review by Joseph P. Iddings), 112; Preliminary Report on the Geology of South Dakota, by J. E. Todd, State Geologist (review by H. F. Bain), 114; The Geomorphogeny of the Coast of Northern California, by A. C. Lawson (A. R. W.), 116; Geological Map of Alabama (H. B. K.), 117; Some Coal Measure Sections near Peytona, West Virginia, by Benjamin Smith Lyman (H. B. K.), 117; Recent Publications, 118.

NOTES - - - - - - - - - - - - - - - - - 119

NUMBER II.

SEDIMENTARY MEASUREMENT OF CRETACEOUS TIME. G. K. Gilbert - - 121

USE OF THE ANEROID BAROMETER IN GEOLOGICAL SURVEYING; Plates I., II. and III. C. W. Rolfe - - - - - - - - - - - - 128

A PETROGRAPHICAL SKETCH OF ÆGINA AND METHANA. Part III. Henry S. Washington - - - - - - - - - - - - - - 138

ON CLINTON CONGLOMERATES AND WAVE MARKS IN OHIO AND KENTUCKY (Concluded). Aug. F. Foerste - - - - - - - - - - 169

GLACIAL STUDIES IN GREENLAND. IV. Plate IV. T. C. Chamberlin - 198

EDITORIALS - - - - - - - - - - - - - - - - 219

PUBLICATIONS: Penokee Iron-Bearing Series of Michigan and Wisconsin, by I. D. Irving and C. R. Van Hise (review by R. A. F. Penrose, Jr., and Joseph P. Iddings), 221; Summary of Current pre-Cambrian North American Literature (review by C. R. Van Hise), 227; Pithecanthropus erectus, by Eug. Dubois (review by G. Baur), 237; The Fins of Ichthyosaurus (review by G. Baur), 238.

87587
JUN 11 1902

NUMBER III

THE CLASSIFICATION OF EUROPEAN GLACIAL DEPOSITS. James Geikie - 241
THE CLASSIFICATION OF AMERICAN GLACIAL DEPOSITS. T. C. Chamberlin. 270
THE VARIATIONS OF GLACIERS. Harry Fielding Reid - - - - - 278
STRATIGRAPHY OF THE SAINT LOUIS AND WARSAW FORMATIONS IN SOUTHEASTERN IOWA. Plate V.; C. H. Gordon - - - - - - 289
ALGONKIAN ROCKS OF THE GRAND CANYON OF THE COLORADO. Plate VI.; C. D. Walcott - - - - - - - - - - - - 312
NEW LIGHT ON ISOSTASY. Grove Karl Gilbert - - - - - - - 331
STUDIES FOR STUDENTS: James D. Dana as a Teacher of Geology. Oliver C. Farrington - - - - - - - - - - - - 335
EDITORIALS - - - - - - - - - - - - - - - 341
PUBLICATIONS: Die Entstehung der Blei- Zink- und Eisenerzlagerstätten in Oberschlesien, by H. Höfer (review by Arthur Winslow), 344. Fragments of Earth-Lore, by James Geikie (review by R. D. Salisbury), 348. Post-Glacial Submergence in the Region of the Great Lakes. (Summary of Literature by C. H. Gordon), 349. Geological Survey of Ohio, Vol. VII, by Professor Edward Orton (review by R. A. F. Penrose, Jr., and E. C. Quereau), 353. Report on Surface Geology of New Jersey, by R. D. Salisbury (review by Israel C. Russell), 358. Reconstruction of the Antillean Continent, by J. W. Spencer (review by H. B. Kümmel), 364. Eléments de Paléontologie, by Felix Bernard (review by E. C. Quereau), 368.

NUMBER IV.

MESOZOIC CHANGES IN THE FAUNAL GEOGRAPHY OF CALIFORNIA. James Perrin Smith - - - - - - - - - - - - - 369
THE AGE AND SUCCESSION OF THE IGNEOUS ROCKS OF THE SIERRA NEVADA. W. H. Turner - - - - - - - - - - - 385
THE STRATIGRAPHY OF THE CALIFORNIA COAST RANGES. H. W. Fairbanks - - - - - - - - - - - - - - - 415
STUDIES IN THE NEOCENE OF CALIFORNIA. George H. Ashley - - 434
SOME CRETACEOUS BEDS OF ROGUE RIVER VALLEY, OREGON. F. M. Anderson - - - - - - - - - - - - - - 455
GLACIAL STUDIES IN GREENLAND. V. T. C. Chamberlin - - - 469
STUDIES FOR STUDENTS: Geologic Study of Migration of Marine Invertebrates. James Perrin Smith - - - - - - - - - - - 481
EDITORIAL - - - - - - - - - - - - - - - 496
PUBLICATIONS: Note on Mr. Kümmel's Review of the Reconstruction of the Antillean Continent (J. W. Spencer), 497. Ueber Archaeische Ergussgesteine aus Småland. Von Otto Nordenskjöld (review by G. Perry Grimsley), 498.
RECENT PUBLICATIONS - - - - - - - - - - - - - 501

NUMBER V.

NOTES ON THE GLACIAL DEPOSITS OF SOUTHWESTERN ALBERTA. George M. Dawson - - - - - - - - - - - - - - 507
EXPERIMENTAL APPLICATION OF THE PHOTO-TOPOGRAPHICAL METHOD OF SURVEYING TO THE BAIRD GLACIER, ALASKA. Otto J. Klotz - - 512
THE CAMBRO-SILURIAN QUESTION IN MISSOURI AND ARKANSAS. C. R. Keyes - - - - - - - - - - - - - - - 519

NOTES ON THE EXAMINATION OF A COLLECTION OF INTER-GLACIAL WOOD FROM MUIR GLACIER, ALASKA. F. H. Knowlton - - - - - 527

LAKE PASSAIC: AN EXTINCT GLACIAL LAKE. R. D. Salisbury and H. B. Kümmel - - - - - - - - - - - - - - - 533

DESCRIPTION OF A NEW SPECIES OF PETALODUS (P. SECURIGER) FROM THE CARBONIFEROUS OF ILLINOIS. O. P. Hay - - - - - - 561

GLACIAL STUDIES IN GREENLAND. VI. T. C. Chamberlin - - - 565

EDITORIAL - - - - - - - - - - - - - - - 583

REVIEWS: Elements of Mineralogy, Crystallography, and Blowpipe Analysis, from a Practical Standpoint, by Albert J. Moses and Charles L. Parsons (review by G. Perry Grimsley), 585; Memoir of Sir Andrew Crombie Ramsay, by Sir Archibald Geikie (review by R. D. S.), 586; Meteorology: Weather and Method of Forecasting, Description of Meteorological Instruments and River Flood Predictions in the United States, by Thomas Russell (review by H. B. K.), 587; Air Breathing Animals of the Palæozoic in Canada, up to 1894, by Sir William Dawson (review by T. C. C.), 588; Om klitternes vandring, by K. J. V. Steenstrup (review by J. A. U.), 589; A Great Pre-Glacial River in Northern Canada, 590; Missouri Geological Survey, by Charles Rollin Keyes and Arthur Winslow, assisted by James D. Robertson (review by T. C. C), 591; Elementary Palæontology for Geological Students, by Henry Woods (review by J. C. M.), 594; Geological and Natural History Survey of Minnesota, by N. H. Winchell, and Leo Lesquereux, Anthony Woodward, Benjamin W. Thomas, Charles Schuchert, Edward O. Ulrich (review by T. C. C.), 595.

RECENT PUBLICATIONS - - - - - - - - - - - - 596

NUMBER VI.

JAMES DWIGHT DANA AND HIS WORK AS A GEOLOGIST. Henry Shaler Williams - - - - - - - - - - - - - - - 600

GLACIAL AND INTER-GLACIAL DEPOSITS NEAR TORONTO. A. P. Coleman - 622

ORIGIN OF CERTAIN FEATURES OF COAL BASINS. H. Foster Bain - - 646

PRE-GLACIAL GRAVELS ON THE QUARTZITE RANGE NEAR BARABOO, WIS., R. D. Salisbury - - - - - - - - - - - - - 655

GLACIAL STUDIES IN GREENLAND. VII. T. C. Chamberlin - - - 668

THE CLASSIFICATION OF THE UPPER PALÆOZOIC ROCKS OF CENTRAL KANSAS. Charles S. Prosser - - - - - - - - - - 682

EDITORIAL - - - - - - - - - - - - - - - 706

PUBLICATIONS: Summary of Current pre-Cambrian North American Literature. C. R. Van Hise - - - - - - - - - - - 709

NUMBER VII.

THE CLIFFS AND EXOTIC BLOCKS OF NORTH SWITZERLAND. E. C. Quereau. 723

PRE-GLACIAL VALLEYS OF THE MISSISSIPPI AND TRIBUTARIES. Frank Leverett - - - - - - - - - - - - - - 740

THE UPPER PALÆOZOIC ROCKS OF CENTRAL KANSAS (Concluded.) Charles S. Prosser. - - - - - - - - - - - - - - 764

THE VOLCANICS OF THE MICHIGAMME DISTRICT OF MICHIGAN. J. Morgan Clements - - - - - - - - - - - - - - 801

THE INFLUENCE OF DÉBRIS ON THE FLOW OF GLACIERS. Israel C. Russell 823

GLACIAL STUDIES IN GREENLAND. VIII. T. C. Chamberlin - - 833

EDITORIALS: - - - - - - - - - - - - - - - 844

REVIEWS: Notes on some Eruptive Rocks from Gallatin, Jefferson and Madison Counties, Montana, by Geo. P. Merrill (review by J. P. Iddings), 850. Highwood Mountains of Montana, by Walter H. Weed (review by J. P. Iddings), 851. The Laccolitic Mountain Groups of Colorado, Utah and Montana, by Whitman Cross (review by J. P. Iddings), 853. Petrology for Students, by Alfred Harker (review J. P. Iddings), 856. Boletin de la Comision Geologica de Mexico, No. 1; Fauna Fosil de la Sierra de Catorce, San Luis Potosi, by Antonio del Castillo and Jose G. Anguilera (review by T. W. Stanton), 858. The Phylogeny of an Acquired Character, by Alpheus Hyatt (review by S. Weller), 861. The Protolenus Fauna, by G. F. Mathew (review by S. Weller), 866. Republication of Descriptions of Fossils from the Hall Collection, by R. P. Whitfield (review by S. Weller), 867. The Mineral Industry, its Statistics, Technology and Trade in the United States and other Countries, Vol. III, by R. P. Rothwell (review by T. C. Hopkins), 868. The Honeycombed Limestone of Lake Huron, by Robert Bell (abstract), 869. Critical Periods in the Earth's History, by J. L. LeConte (abstract), 870. Tepee Buttes, by G. K. Gilbert and F. P. Gulliver (abstract).

RECENT PUBLICATIONS - - - - - - - - - - - - 871

NUMBER VIII.

THE GREENLAND EXPEDITION OF 1895. Rollin D. Salisbury - - - 875

A CIRCUM-INSULAR PALÆOZOIC FAUNA. S. Weller - - - - - - 903

EXPERIMENTS IN ICE MOTION. E. C. Case - - - - - - - 919

ABSAROKITE-SHOSHONITE-BANAKITE SERIES. Joseph P. Iddings - - 935

DISTRIBUTION OF GOLD DEPOSITS IN ALASKA. Geo. F. Becker - - 960

EDITORIALS - - - - - - - - - - - - - - 963

REVIEWS: The Mollusca and Crustacea of the Miocene of New Jersey, by R. P. Whitfield (review by S. Weller.)

AUTHORS' ABSTRACTS - - - - - - - - - - - - 970-990

U. S. Geologic Atlas, folio 11, Jackson, Cal., 969; folio 12, Estillville, Ky., Va., and Tenn., 970; folio, 13, Fredericksburg, Va. and Maryland, 972: folio 14, Staunton, Va. and W. Va., 973; folio 15, Lassen Peak, Cal., 974; folio 17, Marysville, Cal., 976. Iowa Geologic Survey, Samuel Calvin, 977; Geology of Linn County, Wm. H. Norton, 979. Geology of Van Buren County, C. H. Gordon, 979. Geology of Keokuk and Mahaska Counties, H. F. Bain, 979. Geology of Montgomery County, E. H. Londsdale, 980. How Old is the Mississippi? Francis M. Fultz, 981. Glacial Markings in S. E. Iowa, Francis M. Fultz, 981. The Erosive Action of Ice, G. E. Culver, 982. Crystalline Limestones, Ophicalcites and Associated Schists of the Eastern Adirondacks, J. F. Kemp, 983. The Stratigraphy of the Kansas Coal Measures, etc., Erasmus Haworth, 983. Annual Report of the State Geologist in New Jersey for 1894, R. D. Salisbury, 984. The Stone Industry in 1894, Wm. C. Day, 985. The Rocks of the Sierra Nevada, H. W. Turner, 985. Results of Stream Measurements, F. H. Newell, 986. Report on the Coosa Coal Feld with Sections, A. M. Gibson, 986. The Structure of Monument Mountain in Great Barrington, Mass., T. Nelson Dale, 987. On the Structure of the Ridge between the Taconic and Green Mountain Ranges in Vermont, T. Nelson Dale, 987. Notes on the Stratigraphy of the Cambro-Silurian Rocks of Eastern Manitoba, D. B. Dowling, 988. Tertiary Revolution in the Topography of the Pacific Coast, J. S. Diller, 988. Essential Properties of Building Stones, H. F. Bain, 989. Reconnaissance of the Gold Fields of the Southern Appalachians, Geo. F. Becker, 989.

INDEX TO VOL. III - - - - - - - - - - - - - 991